ELSEVIER

Nuclear Instruments and Methods in Physics Research A 384 (1997) 587–592

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Author index

Abt, I., Physics reach of HERA-B . . . 384 (1996) 113
Adeva, B., see Gómez, F. . . . 384 (1997) 351
Akimoto, T., I. Murai, S. Kato, M. Narita and Y. Ogawa, Development of high speed multichannel scalar using line memories . . . 384 (1997) 471
Alarcon, R., see Zwart, T. . . . 384 (1997) 299
Ali, A., Rare B decays in the Standard Model . . . 384 (1996) 8
Allen, C.K. and M. Reiser, Optimal transport of particle beams . . . 384 (1997) 322
Amon, S., see Križaj, D. . . . 384 (1997) 482
Amos, N., L. Cremaldi, G. Finocchiaro, B. Gobbi, K.K. Ng, V. Manzella, V. Peskov, S. Rajagopalan, P. Rubinov, D. Schamberger, G. Sellberg, J. Steffens, R. Tilden, P. Wang and Y. Yu, Position resolution of MSGCs with cathode readout . . . 384 (1997) 342
Angelini, F., see Bellazzini, R. . . . 384 (1996) 192
Arkadiev, V., A. Bzhaumikhov, A. Erko, F. Schäfers, P. Chevallier and P. Populus, Synchrotron radiation beam splitting and filtering by a polycapillary array . . . 384 (1997) 547
Arruda-Neto, J.D.T., see Deppman, A. . . . 384 (1997) 516
Artuso, M., B decay studies at CLEO . . . 384 (1996) 39
Attas, E.M., G.R. Burton, J.D. Chen, G.J. Young, L. Hildingsson and O. Trepte, A nuclear fuel verification system using digital imaging of Cherenkov light . . . 384 (1997) 522

Baba, M., see Matsuyama, S. . . . 384 (1997) 439
Bandžuch, P., M. Morháč and J. Krištiak, Study of the Van Cittert and Gold iterative methods of deconvolution and their application in the deconvolution of experimental spectra of positron annihilation . . . 384 (1997) 506
Barletta, W.A., see Bonifacio, R. . . . 384 (1997) 337
Bay, A. and G. Martellotti, Capillary detectors in LHC-B . . . 384 (1996) 179
Becker, J., see Surkau, R. . . . 384 (1997) 444
Beckmann, M., see Stenger, J. . . . 384 (1997) 333
Bellazzini, R., F. Angelini, M. Bozzo, A. Brez, M.M. Massai, R. Raffo, G. Spandre and M.A. Spezziga, The Micro-Gap Chamber: new developments . . . 384 (1996) 192
Berdugo, J., C. Burgos, M. Cerrada, K. Deiters, M. Fabre, W. Lustermann, A. Robohm and W. Van Rossum, The alignment of the L3 forward–backward muon chambers at LEP200 . . . 384 (1997) 364
Bianchi, F., Status of BaBar at SLAC . . . 384 (1996) 67
Bonifacio, R., L. De Salvo and W.A. Barletta, Relativistic theory of the collective atomic recoil laser . . . 384 (1997) 337
Bonvicini, W., see Križaj, D. . . . 384 (1997) 482
Boonyawan, D., see Singkarat, S. . . . 384 (1997) 463
Booth, E., see Zwart, T. . . . 384 (1997) 299
Bowcock, T., R. Hawkings, G. Passeleva and C. Zeitnitz, B-physics results from LEP . . . 384 (1996) 48
Bozzo, M., see Bellazzini, R. . . . 384 (1996) 192
Brez, A., see Bellazzini, R. . . . 384 (1996) 192
Bukin, D.A., V.P. Druzhinin, V.B. Golubev and S.I. Serednyakov, Scintillation counter with WLS fiber readout . . . 384 (1997) 360
Burgos, C., see Berdugo, J. . . . 384 (1997) 364
Burton, G.R., see Attas, E.M. . . . 384 (1997) 522
Bzhaumikhov, A., see Arkadiev, V. . . . 384 (1997) 547

Ceradini, F., The DAΦNE ϕ-factory: programme and status . . . 384 (1996) 72
Cerrada, M., see Berdugo, J. . . . 384 (1997) 364
Cervelli, F., A. Ferrari, T.A. Lomtadze and M.M. Massai, A new "hybrid" gas chamber for simplified vertex detectors (*Letter to the Editor*) . . . 384 (1997) 583
Chang, Y.H., see Peng, K.C. . . . 384 (1997) 544
Chen, H.C., see Hsu, I.C. . . . 384 (1997) 307
Chen, J.D., see Attas, E.M. . . . 384 (1997) 522
Chen, L.S., see Hsu, I.C. . . . 384 (1997) 307
Chen, M., see Ishida, N. . . . 384 (1997) 380
Chen, S.C., see Lin, L.C.-L. . . . 384 (1997) 274

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Chesi, E., see Weilhammer, P. . . . 384 (1996) 159
Chevallier, P., see Arkadiev, V. . . . 384 (1997) 547
Cho, C.L., see Hsu, I.C. . . . 384 (1997) 307
Chu, C.-C., see Hsu, I.C. . . . 384 (1997) 307
Cook, W.R., see Schindler, S.M. . . . 384 (1997) 425
Corbel, S., see Schindler, S.M. . . . 384 (1996) 425
Cremaldi, L., see Amos, N. . . . 384 (1997) 342
Cummings, M.A.C., Beauty at DØ: upgrade and current results . . . 384 (1996) 88

Dabrowski, W., see Weilhammer, P. . . . 384 (1996) 159
David, I., see Fomichev, A.S. . . . 384 (1997) 519
de Brion, J.P., see Loulergue, A. . . . 384 (1997) 285
Deiters, K., see Berdugo, J. . . . 384 (1997) 364
Deppman, A., J.D.T. Arruda-Neto and M.V. Tavares, A new and simple method to unfold electroexcitation cross sections at intermediate energies . . . 384 (1997) 516
De Salvo, L., see Bonifacio, R. . . . 384 (1997) 337
DeSalvo, R., Light detectors for beauty physics . . . 384 (1996) 153
Di Ciaccio, A., Resistive plate chambers in ATLAS . . . 384 (1996) 222
Dinter, H., K. Tesch and D. Dworak, Doses due to neutrons and charged particles in the angular range 10° to 170° behind concrete shield of high-energy proton accelerators . . . 384 (1997) 539
Dodson, G., see Zwart, T. . . . 384 (1997) 299
Doke, T., see Ishida, N. . . . 384 (1997) 380
Doke, T., see Satoh, M. . . . 384 (1997) 435
Dolfini, S., see Zwart, T. . . . 384 (1997) 299
Dow, K., see Zwart, T. . . . 384 (1997) 299
Dowell, D.H., see Loulergue, A. . . . 384 (1997) 285
Druzhinin, V.P., see Bukin, D.A. . . . 384 (1997) 360
Dulinski, W., see Weilhammer, P. . . . 384 (1996) 159
Dworak, D., see Dinter, H. . . . 384 (1997) 539

Ebert, M., see Surkau, R. . . . 384 (1997) 444
Eerola, P., B-physics potential of ATLAS: an update . . . 384 (1996) 93
Erko, A., see Arkadiev, V. . . . 384 (1997) 547

Fabre, M., see Berdugo, J. . . . 384 (1997) 364
Fadejev, V.A., see Ruzicka, J. . . . 384 (1997) 387
Falciano, S., The ATLAS Level-1 and Level-2 trigger . . . 384 (1996) 136
Farkhondeh, M., see Zwart, T. . . . 384 (1997) 299
Fassò, A., J.C. Gaborit, M. Höfert, F. Pirotte and M. Silari, Radiation levels in LEP, 1989–1995 . . . 384 (1997) 531
Ferrari, A., see Cervelli, F. . . . 384 (1997) 583
Finocchiaro, G., see Amos, N. . . . 384 (1997) 342
Fomichev, A.S., I. David, M.P. Ivanov and Yu.G. Sobolev, Investigation of quaternary fission of ^{248}Cm and ^{252}Cf using two CsI(Tl) counters . . . 384 (1997) 519
Forty, R., Ring-imaging Cherenkov detectors for LHC-B . . . 384 (1996) 167
Franz, A., A. Ljubicic and D.S. Zachary, The NA44 data acquisition system in the CASCADE environment . . . 384 (1997) 371

Gaborit, J.C., see Fassò, A. . . . 384 (1997) 531
Gålnander, B., see Skytt, P. . . . 384 (1997) 558
Garis, N.S., see Singkarat, S. . . . 384 (1997) 463
Gasparini, F., The drift tubes of the barrel-muon detector of CMS . . . 384 (1996) 211
Gaudreau, M., see Ishida, N. . . . 384 (1997) 380
Gobbi, B., see Amos, N. . . . 384 (1997) 342
Golikov, G., see Siegbahn, K. . . . 384 (1997) 563
Golubev, V.B., see Bukin, D.A. . . . 384 (1997) 360
Gómez, F., B. Adeva, G. Gracia, M.A. López, T. Núñez, A. Pazos, M. Pló, A. Rodríguez, C. Santamarina and P. Vázquez, Performance of MSGC with analog pipeline readout . . . 384 (1997) 351
Gracia, G., see Gómez, F. . . . 384 (1997) 351
Grigoriev, S.V., A.I. Okorokov and V.V. Runov, Peculiarities of the construction and application of a broadband adiabatic flipper of cold neutrons . . . 384 (1997) 451
Gronau, M., CP violation in B-decays: the Standard Model and beyond . . . 384 (1996) 1
Grossmann, T., see Surkau, R. . . . 384 (1997) 444

Hammond, J., see Schindler, S.M. 384 (1997) 425
Haouat, G., see Loulergue, A. 384 (1997) 285
Harrison, F.A., see Schindler, S.M. 384 (1997) 425
Hasai, H., see Shizuma, K. 384 (1997) 375
Hasuike, K., see Ishida, N. 384 (1997) 380
Hatanaka, K., K. Takahisa, H. Tamura, M. Sato and I. Miura, Performance of the RCNP polarized ion source 384 (1997) 575
Hauser, J., Cathode strip chambers for the CMS endcap muon system 384 (1996) 207
Hawkings, R., see Bowcock, T. 384 (1996) 48
Heil, W., see Surkau, R. 384 (1997) 444
Heindl, W.A., see Schindler, S.M. 384 (1997) 425
Hildingsson, L., see Attas, E.M. 384 (1997) 522
Hirakawa, N., see Matsuyama, S. 384 (1997) 439
Hitachi, A., see Ishida, N. 384 (1997) 380
Hou, W.S., see Peng, K.C. 384 (1997) 544
Höfert, M., see Fassò, A. 384 (1997) 531
Hofmann, D., see Surkau, R. 384 (1997) 444
Horisberger, R., Pixel detectors at LHC 384 (1996) 185
Hoshi, M., see Shizuma, K. 384 (1997) 375
Hoyes, G.G., see Singkarat, S. 384 (1997) 463
Hsu, I.C., C.-C. Chu, L.S. Chen, H.C. Chen and C.L. Cho, System design and computer simulation study involving the measurement of electron beam energy by laser Compton scattering 384 (1997) 307
Huang, H.C., see Peng, K.C. 384 (1997) 544
Huffman, B.T., Recent beauty results from CDF and the Run-II upgrades 384 (1996) 79
Humblot, H., see Surkau, R. 384 (1997) 444

Ibaraki, M., see Matsuyama, S. 384 (1997) 439
Imamura, M., see Shizuma, K. 384 (1997) 375
Isberg, P., see Skytt, P. 384 (1997) 558
Ishida, N., M. Chen, T. Doke, K. Hasuike, A. Hitachi, M. Gaudreau, M. Kase, Y. Kawada, J. Kikuchi, T. Komiyama, K. Kuwahara, K. Masuda, H. Okada, Y.H. Qu, M. Suzuki and T. Takahashi, Attenuation length measurements of scintillation light in liquid rare gases and their mixtures using an improved reflection suppresser 384 (1997) 380
Ivanov, M.P., see Fomichev, A.S. 384 (1997) 519
Iwasaki, S., see Matsuyama, S. 384 (1997) 439
Iwatani, K., see Shizuma, K. 384 (1997) 375

Jacobs, K., see Zwart, T. 384 (1997) 299
Jobez, J.P., see Weilhammer, P. 384 (1996) 159
Joly, S., see Loulergue, A. 384 (1997) 285
Joo, K., see Zwart, T. 384 (1997) 299

Kaplon, J., see Weilhammer, P. 384 (1996) 159
Kase, M., see Ishida, N. 384 (1997) 380
Kato, S., see Akimoto, T. 384 (1997) 471
Kato, T., see Satoh, M. 384 (1997) 435
Kawada, Y., see Ishida, N. 384 (1997) 380
Keay, A., see McCarthy, K.J. 384 (1997) 403
Kharchilava, A., CP violation in CMS 384 (1996) 100
Kholine, N., see Siegbahn, K. 384 (1997) 563
Kikuchi, J., see Ishida, N. 384 (1997) 380
Kikuchi, J., see Satoh, M. 384 (1997) 435
Klein, R., T. Mayer, P. Kuske, R. Thornagel and G. Ulm, Beam diagnostics at the BESSY I electron storage ring with Compton backscattered laser photons: measurement of the electron energy and related quantities 384 (1997) 293
Kleinknecht, K., Summary of the Beauty '96 Conference 384 (1996) 253
Kobayashi, M., see Satoh, M. 384 (1997) 435
Kobus, H., see Singkarat, S. 384 (1997) 463
Komiyama, T., see Ishida, N. 384 (1997) 380
Kopp, S.E., The CLEO III detector 384 (1996) 61
Kowalski, S., see Zwart, T. 384 (1997) 299
Krištiak, J., see Bandžuch, P. 384 (1997) 506
Križaj, D., W. Bonvicini and S. Amon, FOXFET structure – device modelling and analysis 384 (1997) 482
Krupa, L., see Ruzicka, J. 384 (1997) 387

Kuske, P., see Klein, R. 384 (1997) 293
Kuwahara, K., see Ishida, N. 384 (1997) 380

Leduc, M., see Surkau, R. 384 (1997) 444
Lees, J.E. and J.F. Pearson, A large area MCP detector for X-ray imaging 384 (1997) 410
Lehmann, M.S., see Thoms, M. 384 (1997) 457
Lin, L.C.-L., S.C. Chen and J.S. Wurtele, An equivalent network analysis of waveguide broad-wall coupled RF gun structures 384 (1997) 274
Livan, M., Monitored drift tubes in ATLAS 384 (1996) 214
Ljubicic, A., see Franz, A. 384 (1997) 371
Lomtadze, T.A., see Cervelli, F. 384 (1997) 583
Longo, E., $PbWO_4$ calorimeter in CMS 384 (1996) 225
López, M.A., see Gómez, F. 384 (1997) 351
Loulergue, A., D.H. Dowell, S. Joly, J.P. De Brion, G. Haouat and F. Schumann, Transverse and longitudinal emittance measurements in the ELSA linac 384 (1997) 285
Lustermann, W., see Berdugo, J. 384 (1997) 364

Machida, S., Space-charge-induced resonances in a synchrotron 384 (1997) 316
Mankel, R., Online track reconstruction for HERA-B 384 (1996) 201
Manzella, V., see Amos, N. 384 (1997) 342
Martellotti, G., see Bay, A. 384 (1996) 179
Martinelli, G., Theoretical review of B-physics 384 (1996) 241
Martinengo, J., see Weilhammer, P. 384 (1996) 159
Marzulli, V.M., The NA48 photon calorimeter: a liquid krypton ionization chamber 384 (1996) 237
Masiero, A. and L. Silvestrini, The beauty of SUSY 384 (1996) 34
Massai, M.M., see Bellazzini, R. 384 (1996) 192
Massai, M.M., see Cervelli, F. 384 (1997) 583
Masuda, K., see Ishida, N. 384 (1997) 380
Masuda, K., see Satoh, M. 384 (1997) 435
Matsuyama, S., D. Soda, M. Baba, S. Iwasaki, M. Ibaraki, T. Ohkubo, Y. Nauchi and N. Hirakawa, Air gap effect on the properties of a long liquid scintillation detector 384 (1997) 439
Mayer, T., see Klein, R. 384 (1997) 293
McBride, P., BTeV, a dedicated B experiment at Fermilab 384 (1996) 126
McCarthy, K.J., A. Owens and A. Keay, Escape peak ratios in silicon X-ray charge coupled devices (CCDs) 384 (1997) 403
Miura, I., see Hatanaka, K. 384 (1997) 575
Morháč, M., see Bandžuch, P. 384 (1997) 506
Moser, H.-G. and A. Roussarie, Mathematical methods for $B^0\bar{B}^0$ oscillation analyses 384 (1997) 491
Murai, I., see Akimoto, T. 384 (1997) 471

Nagai, K., Thin gap chambers in ATLAS 384 (1996) 219
Nagengast, W., see Stenger, J. 384 (1997) 333
Narita, M., see Akimoto, T. 384 (1997) 471
Nauchi, Y., see Matsuyama, S. 384 (1997) 439
Neuffer, D., Analyses and simulations of longitudinal motion in μ-recirculating linacs 384 (1997) 263
Ng, K.K., see Amos, N. 384 (1997) 342
Nordgren, J., see Skytt, P. 384 (1997) 558
Núñez, T., see Gómez, F. 384 (1997) 351
Nyberg, T., see Skytt, P. 384 (1997) 558
Nygård, E., see Weilhammer, P. 384 (1996) 159

Ogata, Y., see Ohsuka, S. 384 (1997) 477
Ogawa, Y., see Akimoto, T. 384 (1997) 471
Ohkubo, T., see Matsuyama, S. 384 (1997) 439
Ohsuka, S., Y. Ogata and Y. Tamura, Application of a point-process model to occurrence-time data of photomultiplier dark pulses 384 (1997) 477
Oka, T., see Shizuma, K. 384 (1997) 375
Okada, H., see Ishida, N. 384 (1997) 380
Okada, H., see Satoh, M. 384 (1997) 435
Okorokov, A.I., see Grigoriev, S.V. 384 (1997) 451
Otten, E.W., see Surkau, R. 384 (1997) 444
Otto, J.W., A facility for high-pressure X-ray diffraction at HASYLAB 384 (1997) 552

Owens, A., see McCarthy, K.J. 384 (1997) 403

Passeleva, G., see Bowcock, T. 384 (1996) 48
Pazos, A., see Gómez, F. 384 (1997) 351
Pearson, J.F., see Lees, J.E. 384 (1997) 410
Peng, K.C., S.K. Sahu, H.C. Huang, K. Ueno, Y.H. Chang, C.H. Wang and W.S. Hou, Measurement of radiation damage on an optical reflector 384 (1997) 544
Peskov, V., see Amos, N. 384 (1997) 342
Pirotte, F., see Fassò, A. 384 (1997) 531
Pló, M., see Gómez, F. 384 (1997) 351
Populus, P., see Arkadiev, V. 384 (1997) 547
Prince, T.A., see Schindler, S.M. 384 (1997) 425

Qu, Y.H., see Ishida, N. 384 (1997) 380

Raffo, R., see Bellazzini, R. 384 (1996) 192
Rajagopalan, S., see Amos, N. 384 (1997) 342
Reiser, M., see Allen, C.K. 384 (1997) 322
Ressing, D., First level trigger for HERA-B 384 (1996) 131
Riedler, P., see Weilhammer, P. 384 (1996) 159
Rith, K., see Stenger, J. 384 (1997) 333
Robohm, A., see Berdugo, J. 384 (1996) 364
Rodríguez, A., see Gómez, F. 384 (1996) 351
Roe, S., see Weilhammer, P. 384 (1996) 159
Rohe, D., see Surkau, R. 384 (1997) 444
Roussarie, A., see Moser, H.-G. 384 (1997) 491
Rubinov, P., see Amos, N. 384 (1997) 342
Runov, V.V., see Grigoriev, S.V. 384 (1997) 451
Ruzicka, J., L. Krupa and V.A. Fadejev, On optical transition radiation of charged particles in SiO_2-aerogels 384 (1997) 387

Sachrajda, C.T., Exclusive decays of beauty hadrons 384 (1996) 26
Sahu, S.K., see Peng, K.C. 384 (1997) 544
Santamarina, C., see Gómez, F. 384 (1997) 351
Sato, M., see Hatanaka, K. 384 (1997) 575
Satoh, M., T. Doke, T. Kato, J. Kikuchi, M. Kobayashi, K. Masuda and H. Okada, Attenuation length of drifting electrons in allene-doped liquid argon 384 (1997) 435
Schäfers, F., see Arkadiev, V. 384 (1997) 547
Schamberger, D., see Amos, N. 384 (1997) 342
Schindler, S.M., W.R. Cook, J. Hammond, F.A. Harrison, T.A. Prince, S. Wang, S. Corbel and W.A. Heindl, GRIP-2: A sensitive balloon-borne imaging gamma-ray telescope 384 (1997) 425
Schumann, F., see Loulergue, A. 384 (1997) 285
Séguinot, J., see Weilhammer, P. 384 (1996) 159
Sellberg, G., see Amos, N. 384 (1997) 342
Serednyakov, S.I., see Bukin, D.A. 384 (1997) 360
Shaw, J., see Zwart, T. 384 (1997) 299
Shibata, S., see Shizuma, K. 384 (1997) 375
Shibata, T., see Shizuma, K. 384 (1997) 375
Shizuma, K., K. Iwatani, H. Hasai, T. Oka, M. Hoshi, S. Shibata, M. Imamura and T. Shibata, Identification of ^{63}Ni and ^{60}Co produced in a steel sample by thermal neutrons from the Hiroshima atomic bomb 384 (1997) 375
Siegbahn, K., N. Kholine and G. Golikov, A high resolution and large transmission electron spectrometer 384 (1997) 563
Siemensmeyer, K., see Surkau, R. 384 (1997) 444
Silari, M., see Fassò, A. 384 (1997) 531
Silvestrini, L., see Masiero, A. 384 (1996) 34
Singkarat, S., D. Boonyawan, G.G. Hoyes, U. Tippawan, T. Vilaithong, N.S. Garis and H. Kobus, Development of an encapsulated scintillating fiber detector as a 14-MeV neutron sensor 384 (1997) 463
Skytt, P., B. Gålnander, T. Nyberg, J. Nordgren and P. Isberg, Probe depth variation in grazing exit soft-X-ray emission spectroscopy 384 (1997) 558
Sobolev, Yu.G., see Fomichev, A.S. 384 (1997) 519
Soda, D., see Matsuyama, S. 384 (1997) 439
Soong, S., see Zwart, T. 384 (1997) 299
Spandre, G., see Bellazzini, R. 384 (1996) 192

Spengler, J., HERA-B: overview and 1996 engineering run . . . 384 (1996) 106
Spezziga, M.A., see Bellazzini, R. . . . 384 (1996) 192
Steffens, J., see Amos, N. . . . 384 (1997) 342
Stegmann, C., The Honeycomb Outer Tracker System for HERA-B . . . 384 (1996) 196
Steiner, M., see Surkau, R. . . . 384 (1997) 444
Stenger, J., M. Beckmann, W. Nagengast and K. Rith, A compact Faraday rotation monitor for density and polarization of optically pumped alkali atoms . . . 384 (1997) 333
Surkau, R., J. Becker, M. Ebert, T. Grossmann, W. Heil, D. Hofmann, H. Humblot, M. Leduc, E.W. Otten, D. Rohe, K. Siemensmeyer, M. Steiner, F. Tasset and N. Trautmann, Realization of a broad band neutron spin filter with compressed, polarized ^{3}He gas . . . 384 (1997) 444
Suzuki, M., see Ishida, N. . . . 384 (1997) 380

Takahashi, T., see Ishida, N. . . . 384 (1997) 380
Takahisa, K., see Hatanaka, K. . . . 384 (1997) 575
Tamura, H., see Hatanaka, K. . . . 384 (1997) 575
Tamura, Y., see Ohsuka, S. . . . 384 (1997) 477
Tasset, F., see Surkau, R. . . . 384 (1997) 444
Tavares, M.V., see Deppman, A. . . . 384 (1997) 516
Tesch, K., see Dinter, H. . . . 384 (1997) 539
Thoms, M., M.S. Lehmann and C. Wilkinson, The optimization of the neutron sensitivity of image plates . . . 384 (1997) 457
Thornagel, R., see Klein, R. . . . 384 (1997) 293
Tilden, R., see Amos, N. . . . 384 (1997) 342
Tippawan, U., see Singkarat, S. . . . 384 (1997) 463
Trautmann, N., see Surkau, R. . . . 384 (1997) 444
Trepte, O., see Attas, E.M. . . . 384 (1997) 522
Tsentalovich, E., see Zwart, T. . . . 384 (1997) 299
Turchinetz, W., see Zwart, T. . . . 384 (1997) 299

Ueno, K., see Peng, K.C. . . . 384 (1997) 544
Ulm, G., see Klein, R. . . . 384 (1997) 293
Uraltsev, N., Theoretical aspects of the heavy quark expansion . . . 384 (1996) 17

Van Rossum, W., see Berdugo, J. . . . 384 (1997) 364
Vasileiadis, G., DIRC, the particle identification detector for BaBar . . . 384 (1996) 175
Vázquez, P., see Gómez, F. . . . 384 (1997) 351
Vilaithong, T., see Singkarat, S. . . . 384 (1997) 463

Wang, C.H., see Peng, K.C. . . . 384 (1997) 544
Wang, P., see Amos, N. . . . 384 (1997) 342
Wang, S., see Schindler, S.M. . . . 384 (1997) 425
Weilhammer, P., E. Chesi, W. Dabrowski, W. Dulinski, J.P. Jobez, J. Kaplon, J. Martinengo, E. Nygård, P. Riedler, S. Roe, J. Séguinot and T. Ypsilantis, Performance of Si pad sensors for a RICH detector . . . 384 (1996) 159
Wilkinson, C., see Thoms, M. . . . 384 (1997) 457
Wilkinson, G., LHC-B: overview and recent developments . . . 384 (1996) 119
Wojtsekhowski, B., see Zwart, T. . . . 384 (1997) 299
Wrochna, G., CMS Level-1 Trigger . . . 384 (1996) 143
Wurtele, J.S., see Lin, L.C.-L. . . . 384 (1997) 274

Young, A., see Zwart, T. . . . 384 (1997) 299
Young, G.J., see Attas, E.M. . . . 384 (1997) 522
Ypsilantis, T., see Weilhammer, P. . . . 384 (1996) 159
Yu, Y., see Amos, N. . . . 384 (1997) 342

Zachary, D.S., see Franz, A. . . . 384 (1997) 371
Zeitnitz, C., see Bowcock, T. . . . 384 (1996) 48
Zolnierowski, Y., The ATLAS liquid-argon electromagnetic calorimeter . . . 384 (1996) 230
Zwart, T., R. Alarcon, E. Booth, G. Dodson, S. Dolfini, K. Dow, M. Farkhondeh, K. Jacobs, K. Joo, S. Kowalski, S. Soong, J. Shaw, W. Turchinetz, E. Tsentalovich, B. Wojtsekhowski and A. Young, A precise electron beam energy calibration for use in nuclear physics . . . 384 (1997) 299
Zweizig, J., Data acquisition in the HERA-B and LHC era . . . 384 (1996) 147

Nuclear Instruments and Methods in Physics Research A 384 (1997) 593–596

ELSEVIER

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Subject index

Accelerators, Beam Handling and Targets

Analyses and simulations of longitudinal motion in μ-recirculating linacs, D. Neuffer 384 (1997) 263
An equivalent network analysis of waveguide broad-wall coupled RF gun structures, L.C.-L. Lin, S.C. Chen and J.S. Wurtele 384 (1997) 274
Transverse and longitudinal emittance measurements in the ELSA linac, A. Loulergue, D.H. Dowell, S. Joly, J.P. de Brion, G. Haouat and F. Schumann 384 (1997) 285
Beam diagnostics at the BESSY I electron storage ring with Compton backscattered laser photons: measurement of the electron energy and related quantities, R. Klein, T. Mayer, P. Kuske, R. Thornagel and G. Ulm 384 (1997) 293
A precise electron beam energy calibration for use in nuclear physics, T. Zwart, R. Alarcon, E. Booth, G. Dodson, S. Dolfini, K. Dow, M. Farkhondeh, K. Jacobs, K. Joo, S. Kowalski, S. Soong, J. Shaw, W. Turchinetz, E. Tsentalovich, B. Wojtsekhowski and A. Young 384 (1997) 299
System design and computer simulation study involving the measurement of electron beam energy by laser Compton scattering, I.C. Hsu, C.-C. Chu, L.S. Chen, H.C. Chen and C.L. Cho 384 (1997) 307
Space-charge-induced resonances in a synchrotron, S. Machida 384 (1997) 316
Optimal transport of particle beams, C.K. Allen and M. Reiser 384 (1997) 322
A compact Faraday rotation monitor for density and polarization of optically pumped alkali atoms, J. Stenger, M. Beckmann, W. Nagengast and K. Rith 384 (1997) 333
Relativistic theory of the collective atomic recoil laser, R. Bonifacio, L. De Salvo and W.A. Barletta 384 (1997) 337

High Energy Physics Detectors

Position resolution of MSGCs with cathode readout, N. Amos, L. Cremaldi, G. Finocchiaro, B. Gobbi, K.K. Ng, V. Manzella, V. Peskov, S. Rajagopalan, P. Rubinov, D. Schamberger, G. Sellberg, J. Steffens, R. Tilden, P. Wang and Y. Yu 384 (1997) 342
Performance of MSGC with analog pipeline readout, F. Gómez, B. Adeva, G. Gracia, M.A. López, T. Núñez, A. Pazos, M. Pló, A. Rodríguez, C. Santamarina and P. Vázquez 384 (1997) 351
Scintillation counter with WLS fiber readout, D.A. Bukin, V.P. Druzhinin, V.B. Golubev and S.I. Serednyakov 384 (1997) 360
A new "hybrid" gas chamber for simplified vertex detectors (*Letter to the Editor*), F. Cervelli, A. Ferrari, T.A. Lomtadze and M.M. Massai 384 (1997) 583

High Energy Physics Systems

Proceedings of the Fourth International Workshop on B-Physics at Hadron Machines (Rome, Italy, June 17–21, 1996)

Section I. Theory

CP violation in B-decays: the Standard Model and beyond, M. Gronau 384 (1996) 1
Rare B decays in the Standard Model, A. Ali 384 (1996) 8
Theoretical aspects of the heavy quark expansion, N. Uraltsev 384 (1996) 17
Exclusive decays of beauty hadrons, C.T. Sachrajda 384 (1996) 26
The beauty of SUSY, A. Masiero and L. Silvestrini 384 (1996) 34

Section II. Experiments at e^+e^- machines

B decay studies at CLEO, M. Artuso 384 (1996) 39
B-physics results from LEP, T. Bowcock, R. Hawkings, G. Passaleva and C. Zeitnitz 384 (1996) 48
The CLEO III detector, S.E. Kopp 384 (1996) 61
tatus of BaBar at SLAC, F. Bianchi 384 (1996) 67
The DAΦNE ϕ-factory: programme and status, F. Ceradini 384 (1996) 72

0168-9002/97/$17.00 Copyright © 1997 Elsevier Science B.V. All rights reserved

Section III. General purpose experiments at hadron machines

Recent beauty results from CDF and the Run-II upgrades, B.T. Huffman 384 (1996) 79
Beauty at DØ: upgrade and current results, M.A.C. Cummings 384 (1996) 88
B-physics potential of ATLAS: an update, P. Eerola 384 (1996) 93
CP violation in CMS, A. Kharchilava 384 (1996) 100

Section IV. Dedicated B experiments at hadron machines

HERA-B: overview and 1996 engineering run, J. Spengler 384 (1996) 106
Physics reach of HERA-B, I. Abt 384 (1996) 113
LHC-B: overview and recent developments, G. Wilkinson 384 (1996) 119
BTeV, a dedicated B experiment at Fermilab, P. McBride 384 (1996) 126

Section V. Detector and trigger projects

First level trigger for HERA-B, D. Ressing 384 (1996) 131
The ATLAS Level-1 and Level-2 trigger, S. Falciano 384 (1996) 136
CMS Level-1 Trigger, G. Wrochna 384 (1996) 143
Data acquisition in the HERA-B and LHC era, J. Zweizig 384 (1996) 147
Light detectors for beauty physics, R. DeSalvo 384 (1996) 153
Performance of Si pad sensors for a RICH detector, P. Weilhammer 384 (1996) 159
Ring-imaging Cherenkov detectors for LHC-B, R. Forty 384 (1996) 167
DIRC, the particle identification detector for BaBar, G. Vasileiadis 384 (1996) 175
Capillary detectors in LHC-B, A. Bay and G. Martellotti 384 (1996) 179
Pixel detectors at LHC, R. Horisberger 384 (1996) 185
The Micro-Gap Chamber: new developments, R. Bellazzini 384 (1996) 192
The Honeycomb Outer Tracker System for HERA-B, C. Stegmann 384 (1996) 196
Online track reconstruction for HERA-B, R. Mankel 384 (1996) 201
Cathode strip chambers for the CMS endcap muon system, J. Hauser 384 (1996) 207
The drift tubes of the barrel-muon detector of CMS, F. Gasparini 384 (1996) 211
Monitored drift tubes in ATLAS, M. Livan 384 (1996) 214
Thin gap chambers in ATLAS, K. Nagai 384 (1996) 219
Resistive plate chambers in ATLAS, A. Di Ciaccio 384 (1996) 222
$PbWO_4$ calorimeter in CMS, E. Longo 384 (1996) 225
The ATLAS liquid-argon electromagnetic calorimeter, Y. Zolnierowski 384 (1996) 230
The NA48 photon calorimeter: a liquid krypton ionization chamber, V.M. Marzulli 384 (1996) 237

Section VI. Summaries

Theoretical review of B-physics, G. Martinelli 384 (1996) 241
Summary of the Beauty '96 Conference, K. Kleinknecht 384 (1996) 253

The alignment of the L3 forward–backward muon chambers at LEP200, J. Berdugo, C. Burgos, M. Cerrada, K. Deiters, M. Fabre, W. Lustermann, A. Robohm and W. Van Rossum 384 (1997) 364
The NA44 data acquisition system in the CASCADE environment, A. Franz, A. Ljubicic and D.S. Zachary 384 (1997) 371

Nuclear Spectroscopy

Identification of ^{63}Ni and ^{60}Co produced in a steel sample by thermal neutrons from the Hiroshima atomic bomb, K. Shizuma, K. Iwatani, H. Hasai, T. Oka, M. Hoshi, S. Shibata, M. Imamura and T. Shibata 384 (1997) 375
Attenuation length measurements of scintillation light in liquid rare gases and their mixtures using an improved reflection suppresser, N. Ishida, M. Chen, T. Doke, K. Hasuike, A. Hitachi, M. Gaudreau, M. Kase, Y. Kawada, J. Kikuchi, T. Komiyama, K. Kuwahara, K. Masuda, H. Okada, Y.H. Qu, M. Suzuki and T. Takahashi 384 (1997) 380

Gamma, X-ray and Charged Particle Detectors

On optical transition radiation of charged particles in SiO_2-aerogels, J. Ruzicka, L. Krupa and V.A. Fadejev 384 (1997) 387
Escape peak ratios in silicon X-ray charge coupled devices (CCDs), K.J. McCarthy, A. Owens and A. Keay 384 (1997) 403
A large area MCP detector for X-ray imaging, J.E. Lees and J.F. Pearson 384 (1997) 410

GRIP-2: A sensitive balloon-borne imaging gamma-ray telescope, S.M. Schindler, W.R. Cook, J. Hammond, F.A. Harrison, T.A. Prince, S. Wang, S. Corbel and W.A. Heindl 384 (1997) 425
Attenuation length of drifting electrons in allene-doped liquid argon, M. Satoh, T. Doke, T. Kato, J. Kikuchi, M. Kobayashi, K. Masuda and H. Okada 384 (1997) 435

Neutron Physics

Air gap effect on the properties of a long liquid scintillation detector, S. Matsuyama, D. Soda, M. Baba, S. Iwasaki, M. Ibaraki, T. Ohkubo, Y. Nauchi and N. Hirakawa 384 (1997) 439
Realization of a broad band neutron spin filter with compressed, polarized ^{3}He gas, R. Surkau, J. Becker, M. Ebert, T. Grossmann, W. Heil, D. Hofmann, H. Humblot, M. Leduc, E.W. Otten, D. Rohe, K. Siemensmeyer, M. Steiner, F. Tasset and N. Trautmann 384 (1997) 444
Peculiarities of the construction and application of a broadband adiabatic flipper of cold neutrons, S.V. Grigoriev, A.I. Okorokov and V.V. Runov 384 (1997) 451
The optimization of the neutron sensitivity of image plates, M. Thoms, M.S. Lehmann and C. Wilkinson 384 (1997) 457
Development of an encapsulated scintillating fiber detector as a 14-MeV neutron sensor, S. Singkarat, D. Boonyawan, G.G. Hoyes, U. Tippawan, T. Vilaithong, N.S. Garis and H. Kobus 384 (1997) 463

Electronics

Development of high speed multichannel scalar using line memories, T. Akimoto, I. Murai, S. Kato, M. Narita and Y. Ogawa 384 (1997) 471
Application of a point-process model to occurrence-time data of photomultiplier dark pulses, S. Ohsuka, Y. Ogata and Y. Tamura 384 (1997) 477
FOXFET structure – device modelling and analysis, D. Križaj, W. Bonvicini and S. Amon 384 (1997) 482

Numerical and Data Analysis

Mathematical methods for $B^0\bar{B}^0$ oscillation analyses, H.-G. Moser and A. Roussarie 384 (1997) 491
Study of the Van Cittert and Gold iterative methods of deconvolution and their application in the deconvolution of experimental spectra of positron annihilation, P. Bandžuch, M. Morháč and J. Krištiak 384 (1997) 506
A new and simple method to unfold electroexcitation cross sections at intermediate energies, A. Deppman, J.D.T. Arruda-Neto and M.V. Tavares 384 (1997) 516

Fission, Fusion, Spallation and Heavy Ions

Investigation of quaternary fission of ^{248}Cm and ^{252}Cf using two CsI(Tl) counters, A.S. Fomichev, I. David, M.P. Ivanov and Yu.G. Sobolev 384 (1997) 519
A nuclear fuel verification system using digital imaging of Cherenkov light, E.M. Attas, G.R. Burton, J.D. Chen, G.J. Young, L. Hildingsson and O. Trepte 384 (1997) 522

Medical Applications and Dosimetry

Radiation levels in LEP, 1989–1995, A. Fassò, J.C. Gaborit, M. Höfert, F. Pirotte and M. Silari 384 (1997) 531
Doses due to neutrons and charged particles in the angular range 10° to 170° behind concrete shield of high-energy proton accelerators, H. Dinter, K. Tesch and D. Dworak 384 (1997) 539
Measurement of radiation damage on an optical reflector, K.C. Peng, S.K. Sahu, H.C. Huang, K. Ueno, Y.H. Chang, C.H. Wang and W.S. Hou 384 (1997) 544

Synchrotron Radiation Research

Synchrotron radiation beam splitting and filtering by a polycapillary array, V. Arkadiev, A. Bzhaumikhov, A. Erko, F. Schäfers, P. Chevallier and P. Populus 384 (1997) 547
A facility for high-pressure X-ray diffraction at HASYLAB, J.W. Otto 384 (1997) 552

Probe depth variation in grazing exit soft-X-ray emission spectroscopy, P. Skytt, B. Gålnander, T. Nyberg, J. Nordgren and P. Isberg 384 (1997) 558

Special Applications

A high resolution and large transmission electron spectrometer, K. Siegbahn, N. Kholine and G. Golikov 384 (1997) 563
Performance of the RCNP polarized ion source, K. Hatanaka, K. Takahisa, H. Tamura, M. Sato and I. Miura 384 (1997) 575

Letter to the Editor

A new "hybrid" gas chamber for simplified vertex detectors, F. Cervelli, A. Ferrari, T.A. Lomtadze and M.M. Massai 384 (1997) 583